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Consideration is given to the question of quantum effects when free electrons interact with high frequency fields. Essentially, quantum effects in this case are negligible. However in principle it is possible to measure certain of these effects. Also certain quantum effects, generally speaking, are not negligi-

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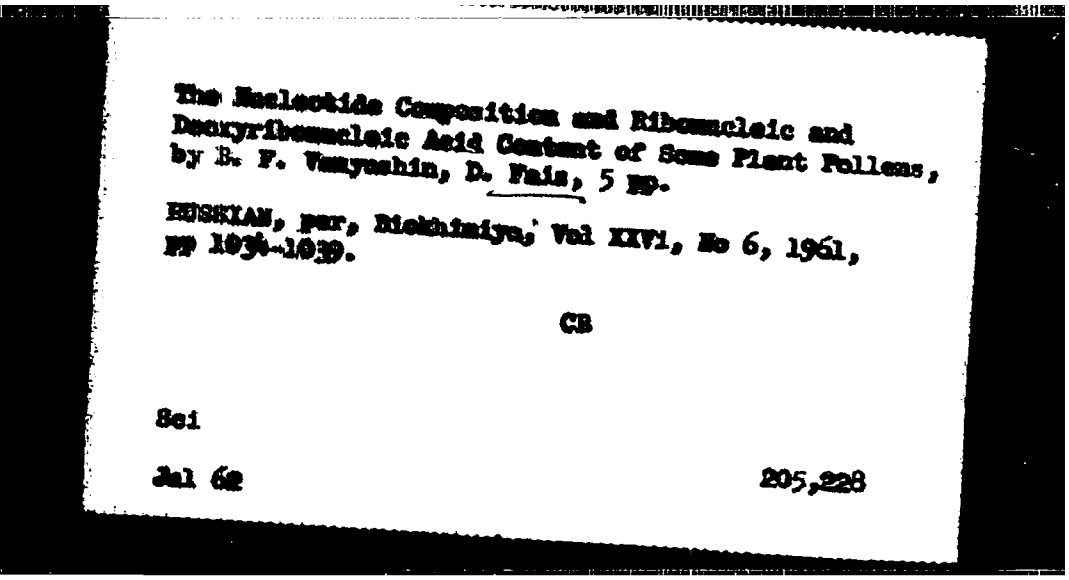

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